

Bhuvvaan Punukolu

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PROFESSIONAL SUMMARY

Data Scientist with 3+ years of experience driving product strategy through machine learning, statistical modeling, and cross-functional collaboration. Adept at translating complex datasets into actionable insights for large-scale applications and optimizing business decisions. Skilled in Python, SQL, A/B testing, and big data tools (Spark, GCP). Proven track record of influencing product roadmaps at Flipkart (\$40B e-commerce platform) and delivering real-time analytics solutions at Hartree Partners.

EDUCATION

University of Colorado Boulder

Master of Science, Data Science | GPA 4.0/4.0

Aug 2023 - May 2025

- **Relevant Coursework:** Machine Learning, Neural Networks, Statistics, Computer Vision, Data Mining

(Avbl. from Jun 27)

Indian Institute of Technology Madras

Master of Technology, Mechanical Engineering | GPA 8.6/10

Aug 2018 - Jul 2020

Indian Institute of Technology Madras

Bachelor of Technology, Aerospace Engineering

Aug 2013 - Jul 2017

- **Notable Achievement:** Secured All India Rank 1 in GATE Aerospace Engineering 2018.

TECHNICAL SKILLS

Languages: Python (PyTorch, Keras), SQL, R, Apache Spark

Tools: Google Cloud Platform, Power BI, Big Query, Kubernetes, Git, Linux

Methods: A/B Testing, Statistical Modeling, Time-Series Forecasting, Machine Learning, Data Mining

Domain Expertise: Product Analytics, Pricing Strategy, Cross-functional Collaboration, Large-Scale Data Pipelines

PROFESSIONAL EXPERIENCE

Flipkart E-Commerce (Walmart Group) | Data Scientist | Bangalore, India

Jul 2021 - Sep 2023

India's largest e-commerce platform (\$40B valuation)

- **Product Development:** Built a machine learning framework (MSKU) using product attributes to identify 1,000+ replaceable SKUs, enhancing competitive intelligence and reducing redundant inventory costs by **15%**.
- **Product Development:** Spearheaded pricing strategy for 30% of platform products by identifying Key Value Items (KVIs) through traffic and elasticity analysis, directly influencing **\$3.5M+ in GMV contribution**.
- **Experimentation:** Designed a sensitivity analysis metric linking price changes to GMV shifts, enabling targeted pricing strategies that improved margin efficiency by **3%**.
- **Analytics:** Revamped Power BI dashboards and data pipelines, delivering weekly insights to senior leadership and 200+ stakeholders to drive category-wide decisions.
- **Collaboration:** Partnered with engineering and business teams to patent a framework for tracking competitor price wars, preventing **\$500K+ in annual revenue loss**.

Hartree Partners LP (Oaktree Capital) | Data Analyst Intern | New York, NY

Jun 2024 - Aug 2024

\$10 Billion commodities trading fund.

- **Predictive Analytics:** Modeled financial performance of 100+ U.S. power assets, generating investment signals that improved EBITDA forecasting accuracy by **20%**.
- **Data Visualization:** Developed a full-stack web app (APIs, Kubernetes) for real-time asset health monitoring, enabling traders to optimize portfolio decisions.
- **Market Insights:** Analyzed market-implied heat rates across 3 ISOs, uncovering load-temperature dependencies to guide long-term trading strategies.

University of Colorado Boulder | Graduate Teaching Assistant | Boulder, CO

Aug 2023 - Present

- Leading a team of 4 TAs to streamline grading for **150+ students** using custom GPTs, reducing error rate by **30%**.

RESEARCH PROJECTS

Multi-Agent Human Robot Collaboration | University of Colorado Boulder

Aug 2024 - Present

- Designing a diffusion model to optimize automatic robotic warehouse layouts, projected to improve throughput by **25%** (deployed on GCP).
- Developing reinforcement learning environments with Stable Diffusion to enhance human-robot collaboration in logistics.